S/126/63/015/002/025/033
E193/E383

AUTHORS: Vasil'yev, D.M. and Plakhtiy, V.P.

TITLE: The effect of texture on the intensity of X-ray
             diffraction lines and the character of deformation of
             low-carbon steels in the yield-ledge range

PERIODICAL: Fizika metallov i metallovedeniye, v. 15, no. 2, 1963,
             297 - 300

TEXT: The object of the present investigation was to obtain
data on the effect of texture on the intensity of X-ray diff-
raction from steel subjected slight (1 to 2%) plastic deformation.
The experiments were conducted on low-carbon steel specimens,
hardened at 800 °C and tempered at 550 °C and then deformed
plastically both in tension and in compression. Cylindrical
specimens for X-ray measurements were cut from the test pieces
in the direction normal to the direction of the applied stress.
The degree of perfection of texture, $0 \leqslant k \leqslant 1$, was calculated
from:
$$k = \frac{I_{max} - I_{min}}{I_{max}}$$

Card 1/3

The effect of ....

S/126/63/015/002/025/033
E193/E383

where I_{max} and I_{min} are the maximum and minimum values of the intensity of the (220) lines in the $0 \leqslant \zeta \leqslant 90°$ range. The results are reproduced in Fig. 3, where k is plotted against the degree $(\varepsilon, \%)$ of plastic deformation in tension (circles) and compression (dots). It will be seen that the formation of texture in the specimens studied had already occurred at the end of the yield range (after deformation of about 2% only). This indicates that the theory of the grain-boundary flow mechanism of yield cannot be correct. The formation of texture immediately after the end of the yield stage of deformation indicates that deformation takes place by intragranular slip. There are 3 figures and 1 table.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. M.I. Kalinina (Leningrad Polytechnical Institute im. M.I. Kalinin)
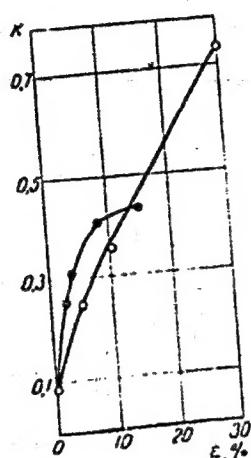
SUBMITTED: June 12, 1962

Card 2/3

S/126/63/015/002/025/033
E193/E383

The effect of ....

Fig. 3:

Card 3/3

VASIL'YEV, D.M.; PLAKHTIY, V.P.; CHZHU TSZIN'-PEN [Chu Chin-p'eng]

X-ray study of the metal fatigue process. Fiz.met.i metalloved.
15 no.4:605-611 Ap '63.
(MIRA 16:6)

1. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinina.
(Steel—Fatigue)
(X rays—Industrial applications)

L 14299-63   EWP(q)/EWT(m)/BDS   AFFTC/ASD   JD

ACCESSION NR: AP3000104   S/0126/63/015/004/0605/0611

AUTHORS: Vasil'yev, D. M.; Plakhtiy, V. P.; Chu Ch'in P'eng

TITLE: X-ray investigation of metal fatigue process

SOURCE: Fizika metallov i metallovedeniye, v. 15, no. 4, 1963, 605-611

TOPIC TAGS: metal fatigue, x-ray investigation

ABSTRACT: Soft steel samples were subjected to rhythmic tension-compression
stresses in a pulsator. The intensity variation of the line (220) at loads larger
and smaller than the fatigue limit was studied. These experimental conditions
caused the development of an axial texture only. The relation between the texture
development and the intensity of the (220) line are illustrated graphically. The
authors conclude that steel samples with a weak initial tension texture develop a
strong tension texture. This process starts with loads 10% smaller than the
fatigue limit. The magnitude of the intensity variation and its sign depend on the
experimental procedure and on the initial texture. Apparently the variation in the
x-ray line intensities can be used as a rough approximation of the danger point in
metal fatigue. The plastic deformation under a cyclic load results in the develop-
ment of a strong texture, equivalent to a 10% order tension. This process is not

Card 1/2

L 14299-63

ACCESSION NR: AP3000104

associated with the macroscopic changes in the sample or with the distortion of separate grain contours. Experiments in which the texture influence was excluded showed that the effect of extinction and of submicrodistortion can be neglected. The authors express their appreciation to B. I. Smirnov for his participation in the discussion concerning the experimental materials and to P. O. Bol'shakov for his help with the experiments. N. N. Davidenkov (deceased) participated in the discussion of the experimental materials. Orig. art. has: 6 figures and 1 formula.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. M. I. Kalinina (Leningrad Polytechnic Institute)

SUBMITTED: 12Jun62   DATE ACQ: 12Jun63   ENCL: 00

SUB CODE: PH   NO REF SOV: 014   OTHER: 002

Card 2/2

VASIL'YEV, D.M.; GLAZUNOVA, V.K.

X-ray investigation of residual stresses in tin coatings.
Izv. vys. ucheb. zav.; chern. met. 8 no.9:151-154 '65.
(MIRA 18:9)

1. Leningradskiy politekhnicheskiy institut.

VASIL'YEV, D.M.

Methods for radiographic measurement of stresses. Zav. lab. 31 no.8:
972-978 '65.   (MIRA 18:9)

VASIL'YEV, D. N.

Chemical Abstracts
May 25, 1954
Cellulose and Paper

Paper for vulcanized fiber. D. N. Vasil'ev. *Bumazh. Prom.* 25, No. 5, 32-5(1950).—Manuf. of paper suitable for the prepn. of vulcanized fiber is discussed in detail. Raw materials necessary for the process, their compn., and their purification are described.   Elizabeth Barabash

VASIL'YEV, D.N., inzh.

New design of heat regenerator systems. Bum. prom. 38 no.11:28
N '63.   (MIRA 17:1)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy
tsellyuloznoy i bumazhnoy promyshlennosti.

ACC NR: AP6015713   (A,N)   SOURCE CODE: UR/4013/66/000/009/0126/0126

INVENTOR: Vasil'yev, D. P.; Vitozhents, E. V.; Chernetsov, I. B.; Berlin, Y. B.;
Mosenkov, V. N.

ORG: None

TITLE: Direct rpm controller for low-power gas turbine engines. Class 46, No.
181448 [announced by the Central Scientific Research and Design Institute of Vehicle
and Stationary Engine Fuel Equipment (Tsentral'nyy nauchno-issledovatel'skiy i kon-
struktorskiy institut toplivnoy apparatury avtotraktornykh i statsionarnykh dviga-
teley)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 126

TOPIC TAGS: speed regulator, gas turbine engine

ABSTRACT: This Author's Certificate introduces: 1. A direct rpm controller for low-
power gas turbine engines. The unit contains an actuating mechanism made in the form
of a nozzle which interacts with a flat valve located in the arm of a balanced spring-
loaded centrifugal weight mounted on the cross connection of the power shaft. Con-
struction is simplified and friction is reduced by locating the nozzle and the fuel
channel in the power shaft. 2. A modification of this device which may be adjusted
during engine operation by using a spring which acts on a lever and is equipped with
a screw for varying tension.

UDC; 621.438-531.6-552.9

Card 1/2

ACC NR: AP6015713

1—nozzle; 2—flat valve; 3—weight;
4—power shaft; 5—spring; 6—screw
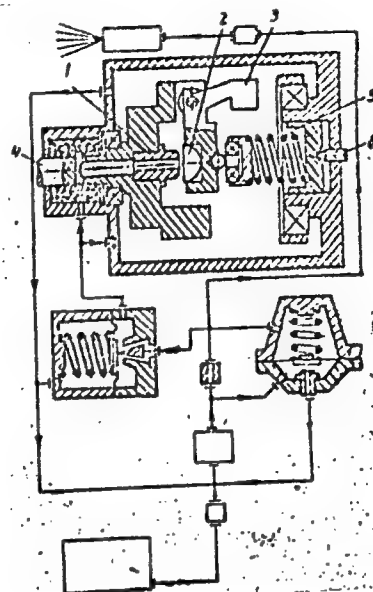
SUB CODE: 13, 21/ SUBM DATE: 04May64

Card 2/2

VASIL'YEV, D. S., Cand Agr Sci -- (Diss) "Ambrosia Artemisiaefolia and Measures for Combatting It in Krasnodarskiy Kray." Krasnodar, 1957. 15 pp (Min of Agriculture USSR, Kuban Agricultural Inst), 110 copies (KL, 47-57, 89)

48

VASIL'EV, D. S., Cand Geol-Min Sci -- (diss) "Influence of neotectonic movements on the development of abrasion and petroleum gas manifestation in the northeastern Black Sea region." Sochi, 1960. 33 pp; 2 pages of tables; (Rostov State Univ); 150 copies; price not given; (KL, 17-60, 144)

PANCHENKO, A. Ya., kand.sel'skokhozyaystvennykh nauk; VASIL'YEV, D.S., kand.sel'skokhozyaystvennykh nauk

Science offers inexhaustible possibilities for increased pro-
duction. Zemledelie 23 no.4:33-39 Ap '61.   (MIRA 14:3)
              (Agricultural research)

VASIL'YEV, D.S.,   Cand Geol-Min Sci — (diss) "Abrasion of the Black Sea coast of Caucasus and evolution of the petroleum and gas bearing prospects of this region." Sochi, 1959. 27 pp with diagrams; 2 sheets of tables (Rostov State U). 150 copies

(KL, 39-59, 102)

20

N

USSR / Weeds and Weed Control.

Abs Jour   : Ref Zhur - Biologiya, No 1, 1959, No. 1933

Author   : Vasil'yev, D. S.
Inst   : Not given
Title   : Methods of Controlling Common Ragweed

Orig Pub   : S.-kh. Kubani. Inform. byul., 1957, No 1, 38-48

Abstract   : Presowing tillage and the cutting of the mass
              shoots of these weeds drastically reduced con-
              tamination of sunflowers and corn by ragweed.
              A dosage of 2 kg/hectare of 2,4-D, applied
              before corn sprouts appeared, reduced ragweed
              contamination on the fields by 87.6%, and the
              corn yield increased 6.5 centner/hectare. The
              best dosage for spraying of the corn sprouts
              was 0.8 kg/hectare. Higher doses of 2,4-D had
              an adverse effect on the corn and lowered the

Card 1/2

3

USSR / Woods and Weed Control.   N

Abs Jour   : Ref Zhur - Biologiya, No 1, 1959, No. 1933

          harvest. Burning the left-over stalks after
          reaping the badly contaminated cultivated
          plants was an extremely good prophylactic mea-
          sure. Spring occupancy of partially fallow
          land was an effective means of coping with
          contamination of the soil with ragweed seeds.
          Ragweed was suppressed best of all with 2,4-D
          on untreated lands. For its complete suppresion
          2 kg/hectare were sufficient. Later on (from
          the stage of 2-3 pairs of leaves), resistance
          of the plants to the herbicide increased, and
          the killing dosages were increased to 2.5 kg/
          hectare. -- L. D. Stonov

Card 2/2

USSR/Weeds and Their Control.   N.

Abs Jour   : Ref Zhur - Biol., No 15, 1958, 68461

Author   : Vasil'yev, D.S.

Inst   : All-Union Scientific Research Institute of Oil and Essen-
              tial Oil Bearing Crops.

Title   : Weed Control in the Pre-Sowing Period.

Orig Pub   : Byul. nauchno-tekhn. inform. Vses. n.-i. in-t maslichn. i
              efiromaslichn. kul'tur, 1957, No 3, 12-14.

Abstract   : Experiments made at the All-Union Scientific Research
              Institute of Oil and Essential Oil Bearing crops and in
              the kolkhozes of the Adygey Autonomous Oblast' have de-
              monstrated that when earlier sowing dates are used for
              sunflowers (the last third of April) and corn (the se-
              cond third of May), and the fields are cultivated before
              sowing, the hibernating weeds (pan-weed, (Thlaspi arven-
                                                                  se)

Card 1/2

USSR/Weeds and Their Control.   N.

Abs Jour   :   Ref Zhur - Biol., No 15, 1958, 68461

            tares, blue burr (lappula eclimata)) and spring weeds
            (wild turnip, black bindweed, bearded oat) are destroyed,
            the yield of sunflower seed increases by 2.8 centners per
            hectare, that of corn seed by 7.2 centners/hectare, and
            the labor expenditure on weeding is reduced.   -- V.A.
            Astaf'yeva

Card 2/2

                            - 4 -

VASIL'YEV D S

USSR/Weeds and Weed Control   H

Abs Jour : Ref Zhur - Biol., No 9, 1958, No 39611

Author   : Knott S.L., Vasil'ev D.S.
Inst   : Institute of Olive and Olive-Essential oil-bearing Crops of
           the Adygey Autonomous Oblast
Title   : Control of Wormwood-Leafed Ragweed by Chemical Method

Orig Pub : Kukuruza, 1957, No 6, 43-44

Abstract : Field experiments showed that the spraying of corn sowings
           by soda salt 2,4-D in doses 2 kg/ha six days before the ap-
           pearance of sprouts or 0.6 - 0.8 kg after this appearance des-
           troys 76-95 percent of the malignant wormwood-leafed ragweed,
           thus increasing the yield of corn considerably. This study
           was conducted in 1954-1956 by the Institute of olive and
           olive-essential oil-bearing crops in the kolkhozes of the
           Adygeysh autonomous oblast. -- N.N. Sokolov.

Card   : 1/1

COUNTRY : USSR   N
CATEGORY : Weeds and Weed Control.

ABS. JOUR. : RZhBiol., No. 3, 1959, No. 11209

AUTHOR : Vasil'yev, D. S.
INST. :
TITLE : Common Ragweed (Ambrosia artemisiifolia) in Krasnodar Kray.

ORIG. PUB. : Vestn. s.-kh. nauki, 1958, No. 5, 135-136.

ABSTRACT : In the experiments carried out during 1954-1957, the ripe seeds of the common ragweed (Ambrosia artemisiifolia) were kept in the granary, in the laboratory and in the soil after having been collected in October. After definite intervals of time, the seeds were sprouted while exposed to light at 18-22°. In November and December, the seeds had not yet germinated regardless of the conditions of their storage. In January, the seeds kept in the soil began to germinate (10-12%); in the second of February their germination reached 18-20%.

CARD: 1/3

COUNTRY   :
CATEGORY   :

ABS. JOUR.   : RZhBiol., No.   1959, No.   11209

AUTHOR   :
INST.   :
TITLE   :

ORIG. PUB.   :

ABSTRACT   : In the first ten days of April, the germination rose to
74-88% and by the end of the month - to 95% while at the
same time the vigor of the sprouting of the seeds rose
considerably. In the soil, favorable conditions are com-
bined for the post-harvest completion of the maturation
of the seeds and their preparation for sprouting. In
the southern and central regions of Krasnodar Kray, the
sowing of sunflowers on the weed-contaminated fields
should be done in the third ten days of April and the
the planting of corn - in the second third of May after

CARD: 2/3

COUNTRY   :
CATEGORY   :

ABS. JOUR.   : RZhBiol., No.   1959, No. 11209

AUTHOR   :
INST.   :
TITLE   :

ORIG. PUB.   :

ABSTRACT   : the destruction of the mass sprouting of the ragweed and
                other early weeds by pre-planting cultivations. --- L.
                D. Stonov

CARD: 3/3

VASIL'YEV, D.S., nauchnyy sotrudnik; TIKHONOV, O.I.

Ambrosia artemisiaefolia and its control in the Kuban. Zashch.
rast. ot vred. i bol. 4 no.2:43-45 Mr-Ap '59.   (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh i
efiromaslichnykh kul'tur (for Vasil'yev). 2. Nachal'nik Krasnodarskoy
karantinnoy inspoktsii (for Tikhonov).
       (Kuban--Ragweed)   (Kuban--Weed control)

VASIL'YEV, D.S.

Some data on the biology of Ambrosia artemisiaefolia L. Bot.
zhur. 44 no.6:843-846 Je '59.   (MIRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh
i efiromaslichnykh kul'tur, Krasnodar.
                    (Ragweed)

SUSLOV, V.M., otv.red.; VASIL'YEV, D.S., red.; GEYDEL'BERG, Ye.Z., red.;
IGNAT'YEV, B.K., red.; MOSKALENKO, V.I., red.; PANCHENKO, A.Ya.,
red.; UMEN, D.P., red.; TULIN, N.S., red.; ANTONOVA, N.M.,
khudozh.-tekhn.red.

[Collection of scientific research papers on oilseed and aromatic
plants] Sbornik nauchno-issledovatel'skikh rabot po maslichnym
i efiromaslichnym kul'turam. Moskva, Izd-vo M-va sel'.khoz.SSSR,
1960. 284 p.   (MIRA 14:3)

1. Krasnodar. Vsesoyuznyy nauchno-issledovatel'skiy institut
maslichnykh i efiromaslichnykh kul'tur.
    (Oilseed plants)   (Aromatic plants)

VASIL'YEV, D.S., kand.sel'khoz.nauk; ANNENKOVA, G.N., nauchnyy sotr.;
BARTENEV, V.A., nauchnyy sotr.; KOSTSOV, P.A.

Using 2, 4-D for controlling offset weeds in fall-plowed fields.
Zemledelie 23 no.8:64-66 Ag '61.   (MIRA 14:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh i
efiromaslichnykh kul'tur (for Vasil'yev, Annenkova, Bartenev).
2. Glavnyy agronom opytno-a   khozyaystva
"Berezanskoye" (for Kostsov).
           (Weed control)   (2, 4-D)

PUSTOVOYT, V.S., akademik, red.; SUSLOV, V.M., kand. ekon. nauk,
     otv. red.; ALEKSEYEVA, Ye.I., , kand. sel'khoz. nauk,
     red.; BUZINOV, P.A., red.; VASIL'YEV, D.S., kand. sel'-
     khoz. nauk, red.; VOSKRESENSKAYA, G.S., red.; GUNDAYEV,
     A.I., red.; IGNAT'YEV, B.K., kand. sel'khoz. nauk, red.;
     MAKSIMOVA, A.Ya., red.; MOSKALENKO, V.I., red.;
     PANCHENKO, A.Ya., red.; TIKHONOV, O.I., red.; SHPOTA, V.I.,
     kand. sel'khoz. nauk, red.; MONOVA, Ye.S., red.; LAPSHINA,
     O.V., red.

[Oilseed and aromatic crops; transactions for 1912-1926]
Maslichnye i efiromaslichnye kul'tury; trudy za 1912-
1962 gg. Pod obshchei red. V.S.Pustovoita. Moskva, Sel'-
khozizdat, 1963. 575 p.   (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslich-
nykh i efiromaslichnykh kul'tur. 2. Vsesoyuznaya akademiya
sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for
Pustovoyt). 3. Direktor Vsesoyuznogo nauchno-issledovatel'-
skogo instituta maslichnykh i efiromaslichnykh kul'tur(for
Suslov).

VASIL'YEV, D.S., kand. sel'skokhoz. nauk; ANNENKOVA, G.N., nauchnyy sotrudnik

Chemical weed control of coriander fields. Zashch. rast. ot vred.
i bol. 8 no.4:25 Ap '63.   (MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh i
efiromaslichnykh kul'tur Krasnodar.
                (Krasnodar Territory—Coriander)
                (Krasnodar Territory—Weed control)

VASIL'YEV, D.S., kand. sel'skokhoz. nauk

Precision sowing method for sunflowers. Zemledelie 26 no.2;
72-75 F '64.   (MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh i
efiromashlichnykh kul'tur.

VASIL'YEV, D.S., kand. sel'skokhoz. nauk

Preharvest defoliation of castor bean. Zemledelie 26 no.2:79-80
Ag '64.   'MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh i
efiromaslichnykh kul'tur.

VASIL'YEV, D. T., Engineer

"Chemical Treatment of Cutting Tools,"
Stanki i Instrument, 10, No. 12, 1939.

Report U-1505, 4 Oct 1951

VASIL'YEV, D. T.

Candidate of Technical Sciences

"New Methods of Machining Metals Instead of Milling", Stanki I Instrument, 14,
No. 3, 1943.

BR-52059019.

VASIL'YEV, D. T.

Candidate of Technical Sciences

"New Methods of Thread Cutting."   Stanki I Instrument Vol. 15, No. 6, 1944

BR 52059019

VASIL'YEV, D. T.

Candidate of Technical Sciences

"A High-Production Method of Precision Thread Cutting." Stanki I Instrument
Vol. 15, No. 12, 1944

BR 52059019

VASIL'YEV, D.T.

Candidate of Technical Sciences

"Conditions for Productive Cutting of Precision Threads,"
Stanki I Instrument, 16, Nos. 4-5, 1945

BR-52059019

VASILYEV, D.

VASIL'YEV, D.T.

Vasil'ev, D   T

Центрирующая резьбонарезная головка. Москва, Гос. научно-техн. изд-во машиностроит. лит-ры, 1946

30, [4] p. illus. 22 cm

At head of title: Оргаппапром.
Errata slip inserted.
Bibliography: p. [39]

Centering Threading Tool.

1. Screw-cutting machines.

Title transliterated: TSentriruíushchaíà rez'bonareznaíà golovka.

TJ1222.V3

Library of Congress

51-23612

(5)

VASIL'YEV, D. T.

Candidate of Technical Sciences

"Unutilized Reserves in Thread Cutting"
Stanki I Instrument, 17, No. 7-8, 1946

BR-52059019

Technology of Electric-Spark Cutting of Metals. D. T. Vasil'ev. Henry Brutcher, Translation No. 2490, 25 pages. From *Stanki i Instrument* (Machine Tools and Equipment), v. 18, no. 3, 1947, p. 1-8.

Considers ways in which the efficiency of the above process can be improved over the efficiency of mechanical cutting processes. Discusses condenser charge and discharge time, energy of discharge, productivity and power requirements, and other methods for increasing productivity.

VASIL'YEV, D.T.

Forces acting on the cutting surfaces of a tool. Sten.i instr. 25
no.4:1-5 Ap '54.   (MLRA 7:6)
        (Cutting tools)

VA L ' i · V, i ·

USSR/ Engineering - Machining metals

Card 1/1   Pub. 128 - 31/35

Authors   : Larin, M. N., Dr., Tech. Sc., Prof.; Grudov, P. P., Dr. Tech. Sc., Docent;
            and Vasil'yev, D. T., Cand. Tech. Sc.

Title   : The cutting of metals

Periodical : Vest. mash. 35/3, 88 - 90, Mar 1955

Abstract   : A review is presented of the book, "The Cutting of Metals," by M. I.
            Klushin, published in 1953 by the State Publishing Office for Machine
            Construction Literature, and containgng 428 pages. A number of short-
            comings are pointed out but on the whole the book is rated as a valu-
            able textbook for students of the subject.

Institution : .....

Submitted   : .....

IAKUSHEV, Aleksandr Ivanovich; VASIL'YEV, D.T., kandidat tekhnicheskikh
nauk, retsenzent; MOZHEYKO, A.F., inzhener, retsenzent; ROZENBLIT,
Ya.M., inzhener, redaktor; PETROVA, I.A., redaktor; ZUBAKIN, I.M.,
tekhnicheskiy redaktor.

[Influence of the manufacturing process and basic threading factors
on the durability of threaded joints] Vliianie tekhnologii izgotovle-
niia i osnovnykh parametrov rez'by na prochnost' rez'bovykh soedinenii.
Moskva, Gos.izd-vo obor.promyshl., 1956. 188 p.   (MLRA 9:5)
                    (Screw threads)

VASIL'YEV, D. T. and FITSNER, L. N.

"Computators for the Determination of the Most Suitable Sequence of Cuts in Metal-Working Industry."

report presented at the Conference on Automation and Computation Engineering, Moscow, 5-8 March 1957. Organized by AU Sci. Eng. and Tech. Society for Apparatus Building.

PHASE I BOOK EXPLOITATION   SOV/3791

Sorevnovaniye po obrabotke zharoprochnykh splavov, Moscow, 1957.

Obrabotka zharoprochnykh splavov; [sbornik dokladov...] (Treatment of Heat-Resistant Alloys; Collection of Papers Read at the Conference), Moscow, Izd-vo AN SSSR, 1960. 231 p. 3,500 copies printed.

Sponsoring Agencies: Akademiya nauk SSSR. Institut mashinovedeniya. Komissiya po tekhnologii mashinostroyeniya; Akademiya nauk SSSR. Institut metallurgii im. A.A. Baykova. Nauchnyy sovet po problemam zharoprochnykh splavov.

Resp. Ed.: V.I. Dikushin, Academician; Ed. of Publishing House: V.A. Kotov; Tech. Ed.: V.V. Bezugol'.

PURPOSE: This book is intended for metallurgists.

COVERAGE: The book consists of thirty papers read at the Conference on the Treatment of Heat-Resistant Alloys held in Moscow by the Committee on Machine-Building Technology, Institute of the Science of Machining, Academy of Sciences USSR, in 1957. The papers deal with four principal areas of alloy metallurgy: casting, forming, machining, and welding. The alloys (together with refractory carbides, borides, nitrides, and oxides) are discussed especially in connection with their application in the manufacture of turbine blades, heat ends, dies, casting reactors, containers for high-temperature media, are mentioned. Molds and metal-cutting tools. No personalities are mentioned. Some of the articles are accompanied by references, mainly Soviet.

16.6800
18.5200

80428
SOV/112-59-23-48191

Translation from: Referativnyy zhurnal Elektrotekhnika, 1959, Nr 23, pp 131 – 132 (USSR)

AUTHORS: Vasil'yev, D.T., Fitsner, L.N.

TITLE: Computing Device for Determining the Optimum Cutting Conditions

PERIODICAL: V sb.: Avtomat. upravleniye i vychisl. tekhn. Moscow, Mashgiz, 1958, pp 362 – 374

ABSTRACT: A device for determining the optimum cutting conditions for metals is described. Potentiometers P_1 having a special logarithmic winding are connected to an electric circuit for solving the transcendental equations of type $1 = a_1^{b_1} \cdot a_2^{b_2} \cdot a_3^{b_3} \ldots \ldots \ldots a_n^{b_n}$, where a_1, b_i are real values and as unknown can be any value. One end of P_1 is connected to the terminal of the feeding battery and the other end to the middle zero point. To the slide of P_1 the ends of linear potentiometers P_1' are connected; the other end of P_1' is connected to the zero point. From P_1' the voltage through the resistance R_1 is supplied to the summing indicator. The voltage supplied to the indicator is $c_i = c\alpha_i \cdot \lg \beta_i$,

Card 1/2

Computing Device for Determining the Optimum Cutting Conditions

where α_1, β_1 are deflections of slides of P_1 and P_1' potentiometers from the end with the zero potential. It is shown that in the circuit holds the equation:

$$\alpha_1 \lg \beta_1 + \alpha_2 \lg \beta_2 + \alpha_3 \lg \beta_3 + \ldots + \alpha_n \lg \beta_n = 0.$$

To find one unknown value α or β, all known data are set and the value sought for is selected on the basis of the zero of indicator. An example of solution of a transcendental equation is analyzed. A table of equations for the optimum cutting conditions is supplied. A description of the design and of the method to protect the indicator from an increased voltage is given. Seven illustrations.

Yu.M.V.

Card 2/2

VINNIK, L.M.; GRINBERG, R.Ya.; KAMINSKIY, Ya.A.; KLEPIKOV, V.D.; KUZNETSOV,
A.M.; KUCHENEV, N.I.; STRUZHESTRAKH, Ye.I.; TISHIN, S.D.; KHARI-
TONOV, A.B.; TSEYTS, I.E.; SHAPIRO, I.I.; SHAPIRO, M.Ya.; ANAN'YAN,
V.A., retsenzent; VASIL'YEV, D.T., retsenzent; GORETSKAYA, Z.D.,
retsenzent; KARTSEV, S.P., retsenzent; KEDROV, S.M., retsenzent;
KOMISSARZHEVSKAYA, V.N., retsenzent; KOPERBAKH, B.L., retsenzent;
KORBOV, M.M., retsenzent; LEONOV, N.I., retsenzent; LUR'YE, G.B.,
retsenzent; NOVIKOV, V.F., retsenzent; GAL'TSOV, A.D., red.; VOL'-
SKIY, V.S., red.; KHISIN, R.I., red.; SEMENOVA, M.M., red. izd-va;
MODEL', B.I., tekhn.red.

[Reference book for establishing norms in the manufacture of
machinery; in 4 volumes] Spravochnik normirovshchika-
mashinostroitelia; v 4 tomakh. Moskva, Gos. nauchno-tekhn.
izd-vo mashinostroit. lit-ry. Vol.2. [Establishing technical norms
for operating machine tools] Tekhnicheskoe normirovanie stanoch-
nykh rabot. Pod red. E.I.Struzhestrakha. 1961. 392 p.
(MIRA 14:8)

(Industrial management)   (Machine tools)

S/121/63/000/001/012/014
A004/A126

AUTHOR: Vasil'yev, D.T.

TITLE: Miniature induction pickups with linear characteristics and large
               working stroke

PERIODICAL: Stanki i instrument, no. 1, 1963, 35 - 37

TEXT: The author describes a number of induction pickups with linear
characteristics over a wide range of measuring rod displacement. This type of
pickup can be manufactured with practically any working stroke. Thus, e.g., one
of them is 10 mm in diameter, 41 mm long and has a working stroke of 3 mm; the
linear portion of the characteristic amounts to 90% of the working stroke. These
pickups are of the plunger type, simple in design and easy to manufacture. The
mechanical part consists only of the friction couple rod - aperture, so that
they ensure a reliable operation. The author describes the design features of
such pickups having either a hollow or solid armature. A valuable property of
induction pickups with linear characteristics is the possibility of reducing the
effect of voltage variations in the supply mains on the reading accuracy. In

Card 1/2

Miniature induction pickups with linear ....

S/121/63/000/001/012/014
A004/A126

many cases, this type of pickup can be supplied from the lighting circuit via an ordinary transformer or a ferrous resonance stabilizer. Using an auxiliary voltage of the same supply source it is easy to obtain zero without noticeable drift. The zero position is displaced by changing the auxiliary voltage magnitude. There are 7 figures.

Card 2/2

DANIYELYAN, Arutyum Mkrtichevich, zasl. deyatel' nauki i tekhniki
RSFSR, doktor tekhn. nauk, prof.[deceased]; BOBRIK, Petr
Ivanovich; GUREVICH, Yankel' Leybovich; YEGOROV, Ivan
Sergeyevich; VASIL'YEV, D.T., kand. tekhn.nauk, retsenzent

[Machining heat resistant steels and alloys and high melting
metals] Obrabotka rezaniem zharoprochnykh stalei, splavov i
tugoplavkikh metallov. Moskva, Mashinostroenie, 1965. 306 p.
                                        (MIRA 18:5)

ATABEKOV, G.I.; BELOUSOV, M.M.; BULGAKOV, K.V.; VASIL'YEV, D.V.;
        YEGIZAROV, I.V.; ZAKHAROV, S.N.; ZEYLIDZON, Ye.D.; KOSTENKO, M.P.;
        MANOYLOV, V.Ye.; "ARNEVSKIY, B.I.; RYZHOV, P.I.; SOLOV'YEV, I.I.;
        SYROMYATNIKOV, I.A.; FABRIKANT, V.L.; CHERNIN, A.B.; CHERNOBROVOV,
        N.V.; FEDOSEYEV, A.M.; SHABADASH, B.I.; SHCHEDRIN, N.N.;
        FATEYEV, A.V.

        Viktor Ivanovich Ivanov, 1900-1964; an obituary. Elektrichestvo
        no.11:89 N '64.   (MIRA 18:2)

ATAESKOV, G.I.; BASHARIN, A.V.; BOGORODITSKIY. N.P.; BULGAKOV, K.V.;
    VASIL'YEV, D.V.; YEGIAZAROV, I.V.; YERMOLIN, N.P.; KOSTENKO, M.P.;
    MATKHANOV, P.N.; NOVASH, V.I.; NORNEVSKIY, B.I.; RUTSKIY, A.I.;
    RYZHOV, P.I.; SOLOV'YEV, I.I.; SOLODNIKOV, G.S.; SLEPYAN, Ya.Yu.;
    SMUROVA. N.V.; TINYAKOV, N.A.; FATEYEV, A.V.; FEDOSEYEV, A.M.;
    SHABADASH B.I.; SHCHEDRIN, N.N.

    Viktor Ivanovich Ivanov, 1900-1964; obituary. Izv. vys. ucheb.
    zav.; energ. 8 no.1:122-123 Ja '65.

                                            (MIRA 18:2)

VASIL'YEV, D.V.

Inertial detection of a random sequence of square pulses.
Izv. vys. ucheb. zav.; radiofiz. 3 no.6:1010-1021 '60.
(MIRA 14:4)

1. Moskovskiy energeticheskiy institut.
(Radio detectors)

21174

S/141/60/003/006/013/025
E192/E382

6.4400

16.6100

AUTHOR: Vasil'yev, D.V.

TITLE: Inertia Detection of a Random Train of Rectangular Pulses

TEXT: The problem of the transfer of rectangular pulses of random duration and spacing through an intertia-type detector was considered by a number of authors (Refs. 1, 2, 3). So far, however, an exact solution of this problem has not been found. In the present work an attempt is made to give a general solution of the problem of the unidimensional distribution of the voltage at the output of the detector by determining some of the moments of this distribution for the steady-state regime. It is assumed that an infinite train of non-overlapping rectangular pulses is applied to a linear filter having an arbitrary RC load. The pulses have a constant amplitude and random and independent durations τ_1 and spacings τ_2 (Fig. 1). The probability density distribution

Card 1/10

Inertia Detection ....

functions $W_1(x)$ and $W_2(x)$ for the durations and spacings
are known. The equivalent circuit of the detector can be
represented as shown in Fig. 2. The charging period of the
capacitance is expressed by:

$$\tau_3 = R_3 C \qquad (1)$$

and its discharge time constant is given by:

$$\tau_p = RC \qquad (2)$$

where $R_3 = R/(1 + SR)$, where S is the slope of the
detector characteristic, R is the resistance of the detector
load and C is the load capacitance. The instantaneous
output voltage of the system shown in Fig. 2 can be expressed
by:

Card 2/10

Inertia Detection ....

$$
u(t) = \begin{cases} u_1(t) = 1 - (1 - U_{\text{н}i}) \exp\left(-\dfrac{t - t_{\text{н}i}}{\tau_{\text{з}}}\right); & t_{\text{н}i} < t < t_{\text{к}i} \\ \\ u_2(t) = U_{\text{к}i} \exp\left(-\dfrac{t - t_{\text{к}i}}{\tau_{\text{р}}}\right); & t_{\text{к}i} < t < t_{\text{н}(i+1)} \end{cases}, \quad (3)
$$

where U_{Hi} and U_{Ki} are voltages across the load/the beginning
and the termination of the i-th input pulse; t_{Hi} and t_{Ki}
are the instants of the beginning and termination of the
i-th input pulse. If A denotes the event that a randomly
chosen time instant, t ,coincides with the presence of a pulse
or $u(t) = u_1(t)$ and B is the opposite event, i.e.
$u(t) = u_2(t)$, the probability density distribution function
for u can be written as:

$$
W(u) = P(A) \, W'(u/A) + P(B) \, W''(u/B) \qquad (4)
$$

Card 3/10

S/141/60/003/006/013/025
E192/E382

where P(A) and P(B) are the probabilities of the events
A   and   B;
W'(u)/A which will be denoted as W'(u)   and
W"(u)/B which will be denoted by W"(u) represent conditional
probability density distributions of the voltages
$u(t) = u_1(t)$ and $u(t) = u_2(t)$, respectively. From the
conditions of the problem it follows that:

$$P(A) = \frac{m_1(\tau_1)}{m_1(\tau_1) + m_1(\tau_2)} ; \qquad (5)$$

$$P(B) = \frac{m_1(\tau_2)}{m_1(\tau_1) + m_1(\tau_2)} , \qquad (6)$$

where $m_1(\tau_1) = \overline{\tau}_1$, $m_1(\tau_2) = \overline{\tau}_2$ which represent average
values of the duration and spacing of the input pulses.

Card 4/10

Inertia Detection ....

Consequently, the problem consists basically of determining
the conditional probabilities $W'(u)$ and $W''(u)$
when $W_1(x)$ and $W_2(x)$ are given. Now, Eq. (3) can be
written in the following form:

$$u(t) = \begin{cases} u_1(t) = 1-(1-U_{ni})\exp\left(-\dfrac{\Delta\tau_{1i}}{\tau_3}\right) = 1-(1-U_{ki})\alpha_i; & t_{ni} \leqslant t < t_{ki} \quad (7) \\[2mm] u_2(t) = U_{ki}\exp\left(-\dfrac{\Delta\tau_{2i}}{\tau_p}\right) = U_{ki}\beta_i; & t_{ki} < t \leqslant t_{n(i+1)} \end{cases}$$

where:

$$\alpha_i = \exp\left(-\frac{\Delta\tau_{1i}}{\tau_3}\right); \qquad \tau_{1i} = t_{ki} - t_{ni}; \qquad (8)$$

$$\beta_i = \exp\left(-\frac{\Delta\tau_{2i}}{\tau_p}\right); \qquad \tau_{2i} = t_{n(i+1)} - t_{ki}, \qquad (9) .$$

Card 5/10

Inertia Detection ....

S/141/60/003/006/013/025
E192/E382

21174

In these, $\triangle$ is a random quantity contained in an interval 0 to 1, which characterises the position of a random point t inside the interval τ_{1i} and τ_{2i} coinciding with it. Clearly, the distribution of this quantity is constant and uniform and is given by:

$$W_\Delta(x) = \begin{cases} 1; & 0 < x < 1 \\ 0; & x < 0; \ 1 < x \end{cases} \qquad (10) \ .$$

It can be shown, therefore, that the conditional probability-density distributions are expressed by:

$$W'(u) = \int_{\tau_1} \int_\Delta \frac{\tau_1}{\tau_1} W_n \left[1 - (1-u) \frac{1}{\alpha} \right] \frac{1}{\alpha} W_1(\tau_1) W_\Delta(\Delta) d\Delta d\tau_1; \qquad (18)$$

$$W''(u) = \int_{\tau_2} \int_\Delta \frac{\tau_2}{\tau_2} W_n \left(\frac{u}{\beta} \right) \frac{1}{\beta} W_2(\tau_2) W_\Delta(\Delta) d\Delta d\tau_2 \qquad (19)$$

Card 6/10

Inertia Detection ....

On the basis of Eq.s (7) it can be shown that the n-th order moments for the functions $W'(u)$ and $W''(u)$ can be written in the form:

$$m_n(u_1) = \int\limits_{U_H} \int\limits_{\tau_1} \int\limits_{\Delta} [1-(1-U_H)z]^n \frac{\tau_1}{\tau_1} W_H(U_H) W_1(\tau_1) W_\Delta(\Delta)\, d\Delta\, d\tau_1\, dU_H; \quad (21) \qquad (21)$$

$$m_n(u_2) = \int\limits_{U_K} \int\limits_{\tau_2} \int\limits_{\Delta} [U_K \beta]^n \frac{\tau_2}{\tau_2} W_K(U_K) W_2(\tau_2) W_\Delta(\Delta)\, d\Delta\, d\tau_2\, dU_K. \quad (22) \qquad (22) .$$

Since U_H is independent of α and U_K does not depend on β it is possible to carry out integration of the above with respect to U_H and U_K for any finite n. It is therefore possible to express $m_n(u_1)$ and $m_n(u_2)$ in terms of the moments of the distribution of the random quantities U_H and U_K, i.e. $m_n(U_H)$ and $m_n(U_K)$. The initial moment of the n-th order for U_K can be determined from:

Card 7/10

21174

S/141/60/003/006/013/025
E192/E382

Inertia Detection ....

$$m_n(U_k) = m\left[(1-a_m) + \sum_{k=1}^{\infty} (1-a_{m-k}) \prod_{l=0}^{k-1} a_{m-l} b_{m-l}\right].$$ (34) (34)

where the coefficients a_i and b_i are defined by:

(30)

$$\frac{1-U_{ki}}{1-U_{ki}} = a_i;$$

$$\frac{U_{ki}}{U_{k(i-1)}} = b_i,$$ (31) .

The moments of the distribution $W_H(U_H)$ can be found from:

(37) .

$$m_n(U_H) = m_n(U_K)m_n(b)$$

From the above expressions it is comparatively easy to

Card 8/10

Inertia Detection ....

evaluate the first few moments for W_K and W_H. The moments of the distribution $W(u)$ for the output voltage are given by:

$$m_n(u) = \frac{\overline{\tau_1} m_n(u_1) + \overline{\tau_2} m_n(u_2)}{\overline{T}},$$ (49)

where:

$$\overline{T} = \overline{\tau}_1 + \overline{\tau}_2$$ (50).

In general, therefore, the moments $m_n(u)$ are determined by the functions $m_n(a)$ and $m_n(b)$ which depend on the input possibilities $W_1(x)$ and $W_2(x)$. All the remaining quantities which are included in the formulae depend on the detector parameters τ_3 and τ_p and the average values of the pulse duration and inter-pulse spacing. Exact formulae for calculating the moment $m_n(b)$ are given for the following distribution

Card 9/10

21174
S/141/60/003/006/013/025
E192/E382

Inertia Detection ....

functions of the spacings τ_2 between the pulses: exponential distribution corresponding to an "absolutely random" train of pulses; a quasi-normal distribution; a uniform distribution and a gamma distribution. The pulses in the above cases are assumed to be of constant duration. The author expresses his gratitude to V.I. Tikhonov and V.L. Lebedev for reading the manuscript and for valuable advice.
There are 3 figures and 6 references; 5 Soviet and 1 non-Soviet.

ASSOCIATION: Moskovskiy energeticheskiy institut
(Moscow Power Institute)

SUBMITTED: June 22, 1960

Card 10/10

SYROMYATNIKOV, I.A.; NEKRASOV, A.M.; LEBEDEV, A.A.; KOSTENKO, M.P.;
NEYMAN, L.R.; VASIL'YEV, D.V.; KAMENSKIY, M.D.; USOV, S.V.;
POSSE, A.V.; UL'YANOV, S.A.; FAZYLOV, Kh.P.

Professor N.N. Shchedrin; on his seventieth birthday and fortieth
anniversary of his educational work. Elektrichestvo no.1:94-
95 Ja '62.   (MIRA 14:12)
          (Shchedrin, Nikolai Nikolaevich, 1891-)

GUTKIN, L.S.; LEBEDEV, V.L.; SIFOROV, V.I.; Prinimali uchastiye:
        VASIL'YEV, D.V.; SVISTOV, N.K.; LYUBIMOVA, T.M., red.;
        BELYAYEVA, V.V., tekhn. red.

        [Radio receiving devices] Radiopriemnye ustroistva. Pod
        red. V.I.Siforova. Pt.2. 1963. 399 p.   (MIRA 16:11)
                (Radio--Receivers and reception)

GUTKIN, L.S.; LEBEDEV, V.L.; SIFOROV, V.I. Prinimali uchastiye:
VASIL'YEV, D.V.; SVISTOV, N.K.; LYUBIMOVA, T.M., red.;
BELYAYEVA, V.V., tekhn. red.

[Radio receiving devices] Radiopriemnye ustroistva. Pod
red. V.I.Siforova. Moskva, Sovetskoe radio. Pt.2. 1963.
399 p.   (MIRA 17:2)

L 2967-66   EWT(d)/EWP(k)/EWP(l)   JKT   UR/0105/64/000/009/0093/0094
ACCESSION NR: AP5026357

AUTHOR: Baluyev, V. K.; Grudinskiy, P. G.; Izyumov, N. M.; Kulebakin, V. S.;
Mirolyubov, N. N.; Sotskov, B. S.; Tsirlin, A. D.; Alekseyev, A. Ye.;
Bogoroditskiy, N. P.; Berger, A. Ya.; Yavorskiy, V. N.; Nasledov, D. N.;
Vasil'yev, D. V.

TITLE: Nikolay Nikolayevich Lutsenko (Obituary)

SOURCE: Elektrichestvo, no. 9, 1964, 93-94

TOPIC TAGS: electric engineering personnel

ABSTRACT: Doctor of Technical Sciences, Major General in the Technical
Engineering Service, Professor N. N. Lutsenko died in May of this year
after a long and serious illness. He graduated from the Moscow Higher
Technical Academy in 1914 and was closely associated with his specialty
of electrical engineering till the end of his life. He spent the first
years of his practical activity at the Academy working in the electrical
engineering laboratory of K. A. Krug. After that he began his career in
the Soviet Army as a lowly laboratory assistant in the radiotechnical
laboratory and worked his way up over thirty years to be head of the

Card 1/2

L 2967-66
ACCESSION NR: AP5026357

Department of Electrical and Military Engineering. He wrote several books:
"Alternating Currents," "The Theory of Alternating Currents," "Course in
General Electrical Engineering," "Radio Engineering" and, together with his
co-workers, problem books on "A Course in Alternating Currents" and "The
Physical Principles of Electrical Engineering." He set up a number of
special courses (military application of electric power, military portable
electric power stations, electric equipment for armies, electrification
of military engineering works, etc.) and also participated in many engineer-
ing projects with the Soviet Army. He has written many textbooks, mono-
graphs and articles on the theoretical and applied divisions of military
electrical engineering. These include "Electric Circuits" and "Fundamentals
for the Design and Planning of Mobile Electric Stations." Many of N. N.
Lutsenko's students are working in sections of the Soviet Army, in scientific
institutes and in colleges, and in industry. These students are continuing
the work of their teacher, the founder of Soviet military electrical engineer-
ing. He received his professorship in 1938 and his doctorate in 1949. He
has received the Order of Lenin, three "Red Banners," the Order of the "Red
Star" and many medals. Orig. art. has: 1 figure.

ASSOCIATION: none
SUBMITTED: 00   ENCL: 00   SUB CODE: EE
NO REF SOV: 000   OTHER: 000   JPRS
Card 2/2

VASIL'YEV, D. V.

VASIL'YEV, D. V.

Vasil'yev, D. V. defended his Doctor's dissertation in the Leningrad Polytechnic Institute im Kalinin, USSR, on 11 March 1946, for the academic degree of Doctor of Technical Sciences.

Dissertation: "Induction Synchronous-Tie Systems". Resume: A theoretical analysis of synchronous-tie induction systems, including establishment of criteria for applicability of diagrams constructed by Vasil'yev to single-phase selsyns.

Official Opponents: Profs. V. K. Popov, S. A. Press, and N. A. Livshits (all Doctors of Technical Sciences).

SO: Elektrichestvo, No. 7, Moscow, August 1953, pp 87-92 (W/29844, 16 Apr 54)

VASIL'YEV, D. V., Prof.

PA 51/49T106

USSR/Weapons
Artillery
Remote Control

Jul/Aug 49

"Letter to the Editor," Prof S. A. Press, Dr Tech
Sci, Chair of Leningrad Ord of Red Banner Mil
Mech Inst, Prof D. V. Vasil'yev, Dr Tech Sci,
Chair of Leningrad Electrotech Inst imeni V. I.
Ul'yanov, Docent B. I. Rubin, Cand Tech Sci,
Chair of LKVVIA, and Prof M. L. Tsukkerman, Chair
of Leningrad Inst of Precise Mech and Opt, 2 pp

"Avtomat i Telemekh" Vol X, No 4

Critical letter denounces M. A. Ayzerman and Ya.
51/49T105

USSR/Weapons   (Contd)   Jul/Aug 49

2. Tsypkin's review ("Avtomatika i Telemekhanika,"
No 4, 1948) of V. A. Besekerskiy's book "Remote
Control of Artillery Units."

51/49T106

VASIL'YEV, D.V.

BOGORODITSKIY, N.P., professor; VASIL'YEV, D.V., professor; BAYDA, L.I.
dotsent; ODINTSOV, G.V., dotsent; SEMENKOVICH, A.A., dotsent; FATEYEV,
A.V., dotsent; YURGENSON, R.I., dotsent; ARANOVICH, B.I., starshiy
prepodavatel'; GEKTOR, D.S. starshiy prepodavatel'; POVOLOTSKIY, Ya.A.,
prepodavatel'.

Development of automatic control and telemechanics in the fifth
five-year plan. Avtom. i telem. 14 no.2:238-240 Mr-Ap '53.

(MLRA 10:3)

1. Leningradskiy elektrotekhnicheskiy institut im. V.I.Ul'yanova
(Lenina)

(Automatic control) (Remote control)

Vasil'yev, D. V.

KULEBAKIN,V.S.; ALEKSEYEV,A.Ye.,; LARIONOV,A.N.; BOGORODITSKIY,N.P.;
     CHILIKIN,M.G.; VASIL'YEV,D.V.; ODINTSOV,G.V.; PETROV,I.I.;
     FATEYEV,A.V.; GOLOVAN,A.T.; MOROZOV,D.P.; BASHARIN,A.V.

     S.A.Rinkevich. Elektrichestvo no.9:85 S'55. (MLRA 8:11)
         (Rinkevich, Sergei Aleksandrovich, 1886-1955)

8(2)   PHASE I BOOK EXPLOITATION   SOV/2030

Vasil'yev, Dmitriy Vasil'yevich, Boris Afanas'yevich Mitrofanov, Grigoriy
  L'vovich Rabkin, Georgiy Nikanorovich Samokhvalov, Aleksandr Aleksandro-ich
  Semenkovich, Aleksandr Vasil'yevich Fateyev, and Nikolay Ivankovich Chicherin

Raschet sledyashchego privoda (Servodrive Design) Leningrad, Sudpromgiz, 1958.
   370 p. 8,000 copies printed. Errata slip inserted.

Resp. Ed.: S. Ya. Berezin; Ed.: Ye. N. Shaurak; Tech. Ed.: P. S. Frumkin.

PURPOSE: This book is intended for scientists, engineers, and students of vuzes.

COVERAGE: This book discusses the problems of designing electromechanical
   servodrives and gives examples of design from the point of view of the
   overall system and of the individual basic elements. The design of servodrive
   amplifiers, the selection and design of error-sensing devices, and the
   experimental determination of the transfer functions of the discrete links
   of a servodrive are given considerable attention in the book. Materials on
   the design of electromechanical servodrives are systematized and the design
   of servodrives with electronic and magnetic amplifiers and of servodrives
   with rotating amplifiers is discussed. These designs reflect the practical
   experiences of the authors in the development of servosystems. The authors

Card 1/5

Servodrive Design (Cont.)   SOV/2030

TABLE OF CONTENTS:

Card 2/5

Servodrive Design (Cont.)   807/2030

Card 3/5

Servodrive Design (Cont.)   SOV/2030

Card 4/5

Servodrive Design (Cont.)

SOV/2030

7-5. Example of the design of a servodrive with magnetic and
      rotating amplifiers

358

Bibliography

366

AVAILABLE: Library of Congress

Card 5/5

LK/mg
10-29-59

V tSIL'YEV, B.V.

BOGORODITSKIY, N.P.; YERMOLIN, N.P.; FATEYEV, A.V.; VASIL'YEV, D.V.; ODINTSOV,
    G.V.; GEKTOR, D.S.; APLAKSIN, B.A.

Professor V.A. Timofeev. Elektrichestvo no.2:96 F '58. (MIRA 11:2)
            (Timofeev, Vladimir Andreevich, 1897-)

AUTHORS: Ivanov, V. I., Professor, Doctor of   SOV/105-58-9-34/34
            Technical Sciences, Vasil'yev, D. V., Professor, Doctor
            of Technical Sciences, Fateyev, A. V., Professor, Doctor
            of Technical Sciences, Odintsov, G. V., Docent, Candidate
            of Technical Sciences

TITLE: Bibliography (Bibliografiya) K.V.Bulgakov: Power Supply
            for Industry (K.V.Bulgakov: Energosnabzheniye promyshlennykh
            predpriyatiy)

PERIODICAL: Elektrichestvo, 1958, Nr 9, pp 96 - 96 (USSR)

ABSTRACT: This is a review of a book published in 1957 by "Gosenergo-
            izdat",   : 343 pp., 11,85 Roubles. Power supply
            for industry is correctly described as a many-sided problem which
            must be solved as a whole. The book is intended for the
            engineer concerned with the design of power plants for
            industry and with their operation, but may also
            serve as a textbook for students working in this field.
            It will be of particular value since at present there
            is no other book on this subject. The book is on a high
Card 1/2   scientific and theoretical level. The subject dealt

Bibliography. K.V.Bulgakov: Power Supply for Industry   SOV/1o5-58-9-34/34

with is scientifically arranged, it complies with
the present state of power engineering, and is simply and
lucidly written. Some minor imperfections, as the too
small number of numerical examples and reference data,
etc., could be easily removed with the next edition.
ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im.V.I.
Ul'yanova (Lenina)(Leningrad; Electrical Engineering In-
stitute im.V.I.Ul'yanov (Lenin))

Card 2/2

USCOMM-DC-60.781

VASIL'YEV, Dmitriy Vasil'yevich; FILIPPOV, G.S.

[Fundamentals of the theory of servomechanisms] Osnovy
teorii rascheta slediashchikh sistem. Moskva, Gos. energ.
izd-vo, 1959.   428 p.   (MIRA 15:3)
            (Servomechanisms)

PHASE I BOOK EXPLOITATION   SOV/3707

Vasil'yev, Dmitriy Vasil'yevich, and Gleb Sergeyevich Filippov

Osnovy teorii i rascheta sledyashchikh sistem (Fundamentals of Theory and
   Design of Servosystems) Moscow, Gosenergoizdat, 1959. 428 p.
   22,000 copies printed. Errata slip inserted.

Ed.: Yu. A. Sabinin; Tech. Ed.: Ye. M. Soboleva.

PURPOSE: This textbook was approved by the Ministry of Higher Education, USSR,
   for electrical engineering and power engineering schools of higher education.
   It may also be of use to engineers dealing with problems of automation.

COVERAGE: The authors present the fundamentals of theory and design of servo-
   systems both in a linear approximation and also with nonlinearities taken
   into account. Methods of improving the quality of servosystem performance
   are discussed, and typical circuit diagrams of servosystem used in engineering
   practice are presented. The book was written in accordance with the program
   of the course on servosystems at the Leningrad Electrical Engineering Institute
   imeni V.I. Ul'yanov (Lenin) for students of various specialities. The authors

Card 1/16

Fundamentals of Theory (Cont.)   SOV/3707

thank V.S. Levit, senior teacher, for his help. There are 37 references,
all Soviet (8 of these are translations)

TABLE OF CONTENTS:

Card 2/16

VASIL'YEV, Dmitriy Vasil'yevich; FILIPPOV, Oleb Sergeyevich; SABININ,
Yu.A., red.; SOBOLEVA, Ye.M., tekhn.red.

[Theory and design fundamentals of servomechanisms] Osnovy
teorii i rascheta slediashchikh sistem. Moskva, Gos.energ.
izd-vo, 1959. 428 p.   (MIRA 13:2)
            (Servomechanisms)

Vasil'yev, Dmitriy Vasil'yevich, and Voislav Georgiyevich Chuich

Raschet sistem avtomaticheskogo upravleniya; zadachi i primery
    (Design of Automatic Control Systems; Problems and Examples)
    Moscow, Mashgiz, 1959. 390 p. Errata slip inserted.
    10,000 copies printed.

Reviewer: A. V. Fateyev, Doctor of Technical Sciences, Professor;
    Ed.: Yu. A. Sabinin, Candidate of Technical Sciences, Docent;
    Eds. of Publishing House: G. A. Dudusova and N. Z. Simonovskiy;
    Tech. Ed.: I. D. Nikolayeva; Managing Ed. for Literature on the
    Design and Operation of Machinery (Leningrad Division, Mashgiz):
    F. I. Fetisov, Engineer.

PURPOSE: This book is intended for technical personnel working in
    automatic control. It may also be used by students of advanced
    courses in schools of higher technical education.

Card 1/5

Design of Automatic Control Systems (Cont.)   SOV/2979

COVERAGE: The book deals with the application of the theory of
   automatic control and servomechanisms to the solution of
   practical problems in investigating and designing static and
   dynamic regimes of closed-loop automatic control systems.
   Construction of block and schematic diagrams, frequency
   characteristics, equations, and transfer functions of automatic
   control systems and servomechanisms are described. Consider-
   able attention is given to the use of computers in research
   and design. Design calculations in sections 16 and 17 were
   made by Yu. N. Reshetnikov and Ye. M. Neplokhov. There are
   35 references, all Soviet.

TABLE OF CONTENTS:

Card 2/5

Design of Automatic Control Systems (Cont.)   SOV/2979

Card 3/5

Design of Automatic Control Systems (Cont.)   SOV/2979

Card 4/5

AVAILABLE: Library of Congress

Card 5/5   VK/jmr
                                                  2-1-60

VASIL'YEV, Dmitriy Vasil'yevich; CHUICH, Voislav Georgiyevich;
PATEYEV, A.V., prof., doktor tekhn.nauk, retsenzent; SABININ,
Yu.A., dotsent, kand.tekhn.nauk, red.; DUDUSOVA, G.A., red.
izd-va; SIMONOVSKIY, N.Z., red.izd-va; NIKOLAYEVA, I.D.,
tekhn.red.

[Calculation of automatic control systems; problems and examples]
Raschet sistem avtomaticheskogo upravleniia; zadachi i primery.
Moskva, Gos. nauchno-tekhn.izd-vo mashinostr.lit-ry, 1959. 390 p.
(MIRA 12:10)

(Electronic control)   (Servomechanisms)

VASIL'YEV, D.V.; MIKHAYLOV, V.A.; NORNEVSKIY, B.I.; DEMCHENKO, O.P.,
      starshiy nauchnyy sotr., kand. tekhn. nauk, retsenzent;
      MURATOV, I.I., dots., kand. tekhn. nauk, retsenzent;
      REYNGOL'D, Yu.A., kand. tekhn. nauk, dots., retsenzent;
      BAYKO, V.F., kand. tekhn.nauk, dots., nauchnyy red.; KLIMINA,
      Ye.V., red.; KRYAKOVA, D.M., tekhn. red.

[Automatic control systems for ships] Sudovye avtomatizirovan-
nye ustanovki. Leningrad, Gos. soiuznoe izd-vo sudostroit. pro-
myshl., 1961. 595 p.   (MIRA 15:2)
      (Marine engineering)   (Automatic control)

VASIL'YEV, D.V., doktor tekhn. anuk, prof., zasluzhennyy deyatel';
TARATIN, A.F., inzh.

Synthesis of a system of mutually coupled channels of a heavy
copying and milling machine. Izv. LETI no.47:220-260 '62.
(MIRA 16:12)

ALEKSEYEV, A.Ye.; BASHARIN, A.V.; BOGORODITSKIY, N.P.; VASIL'YEV, D.V.;
        IVANOV, V.I.; LYUTER, R.A.; MANOYLOV, V.Ye.; YERMOLIN, N.P.;
        FRAMKE, A.V.

        Vladimir Tikhonovich Kas'ianov; on the seventy-fifth anniversary
        of his birth and the tenth anniversary of his death.
        Elektrichestvo no.4:95 Ap '62.   (MIRA 15:5)
                (Kas'ianov, Vladimir Tikhonovich, 1887-1952)

VASIL'YEV, D.V.; BESSEKERSKIY, V.A.; NEYMAN, L.R.; PIVOVAROV, S.P.;
POLONSKIY, V.I.; FATEYEV, A.V.

Professor Arkadii Timofeevich Blazhkin, 1904 – ; on his 60th
birthday and the 35th anniversary of his scientific and
educational work. Elektrichestvo no.4:94 Ap '64.   (MIRA 17:4)

BEREZNIKOVSKIY Sergey Fedorovich, dots., kand. tekhn. nauk;
        BESEKERSKIY, V.A., doktor tekhn.nauk, retsenzent;
        VASIL'YEV, D.V., doktor tekhn. nauk, retsenzent;
        BLAZHKIN, A.T., prof., red.; KVOCHKINA, G.P., red.

        [Automatic regulation and control of electrical machines;
        some theory problems and elements of control systems] Av-
        tomaticheskoe regulirovanie i upravlenie elektricheskimi
        mashinami; nekotorye voprosy teorii i elementy sistem up-
        ravleniia. Leningrad, Sudostroenie, 1964. 418 p.
                                            (MIRA 17:9)

L 27557-65

Design and . . . .

sistem), Leningrad, Izd-vo "Sudostroyeniye", 1964, 606 p. illus., biblio. 10,900 copies printed.

TOPIC TAGS: servomechanism, electro . . . . . . amplifier

TABLE OF CONTENTS (abridged) Card 1/2

Bibliography -- 002

Card 2/2

ACC NR: AM6004099   (N)   Monograph   UR/0203

Vasil'yev, Dmitriy Vasil'yevich; Mikhaylov, Vladimir Aleksandrovich; Nomevskiy, Boris Ivanovich

Automation of ship equipment (Avtomatizatsiya sudovykh ustanovok) 2d ed., rev. and enl. Leningrad, Izd-vo "Sudostroyeniye", 1965.   607 p. illus., biblio. 3500 copies printed. Textbook for institutions of higher technical education

TOPIC TAGS: shipborne automatic control system, linear control system, nonlinear control system, electric motor

PURPOSE AND COVERAGE: This book is based on the course "Electrical equipment and automation of ships" conducted at the Leningrad Electrotechnical Institute im. V. I. Ul'yanova. This textbook is intended for use in the above-mentioned course in schools of higher technical education; it may also be used by engineers designing new automated marine plants and by manufacturing workers. The book deals with elements and control systems of automated ship installations. The theoretical fundamentals of automatic control are also considered, along with linearized systems and problems of the theory of nonlinear systems. Fundamentals of the statistical dynamics method of systems with automatic control are discussed.

TABLE OF CONTENTS [abridged]:

Card 1/4   UDC: 621.311.2—52:629.12

ACC NR₁   AM6004099

Card 2/4